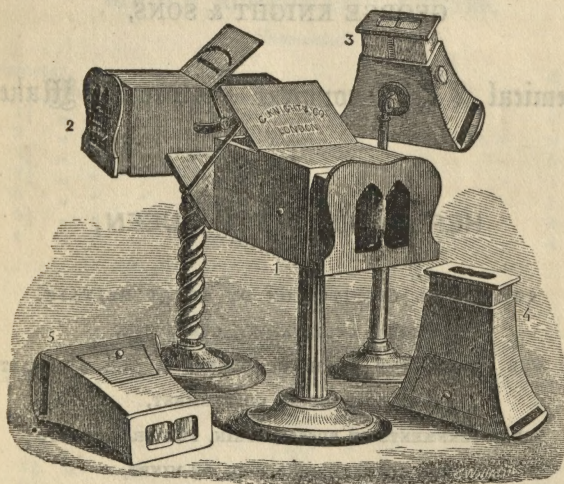


# CATALOGUE OF SCIENTIFIC INSTRUMENTS.

## PART II.

### Photographic Apparatus and Chemicals.



THE ROYAL COSMORAMA STEREOSCOPE.



JAMES HOW,

*Upwards of Twenty Years  
with, and Successor to,*



**GEORGE KNIGHT AND SONS,**

2 FOSTER LANE, LONDON.

CATALOGUE  
OF  
SCIENTIFIC INSTRUMENTS.  
PART II.  
Photographic Apparatus and Chemicals.  
JAMES HOW,

*Upwards of Twenty Years with, and Successor to,*

GEORGE KNIGHT & SONS,

Chemical & Philosophical Instrument Makers

TO

HER MAJESTY THE QUEEN,

THE ROYAL INSTITUTION OF GREAT BRITAIN,

THE ROYAL OBSERVATORY, GREENWICH,

THE WAR OFFICE, THE BOARD OF ORDNANCE, THE ADMIRALTY,

THE EAST INDIAN GOVERNMENT,

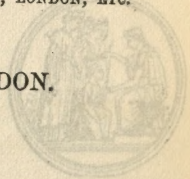
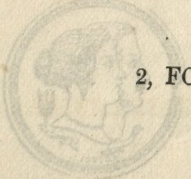
THE GOVERNMENTS OF RUSSIA, SPAIN, THE BRAZILS, ETC.,

THE GOVERNMENT SCHOOL OF MINES,

THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN,

THE UNIVERSITIES OF OXFORD, CAMBRIDGE, LONDON, ETC.

JAMES HOW  
with and Successor to  
2, FOSTER LANE, LONDON.



GEORGE KNIGHT AND SONS,  
2 FOSTER LANE, LONDON.



# CATALOGUE.

### SINGLE ACHROMATIC LENSES,

*Unmounted.*

Diameter.		Focus.						£	s.	d.
$1\frac{1}{2}$ inch	-	4 inch	-	-	-	-	-	0	8	0
$1\frac{3}{4}$ "	-	5 to 8	"	-	-	-	-	0	10	6
2 "	-	6 to 10	"	-	-	-	-	0	14	0
$2\frac{1}{4}$ "	-	8 to 12	"	-	-	-	-	0	17	6
$2\frac{1}{2}$ "	-	12 to 16	"	-	-	-	-	1	4	0
3 "	-	16 to 18	"	-	-	-	-	1	15	0
$3\frac{1}{2}$ "	-	18 to 24	"	-	-	-	-	2	10	0
4 "	-	24 to 26	"	-	-	-	-	4	4	0

### Brass Mountings for the above Lenses.

Diameter of Lens.		Plain.		With Rackwork.
$1\frac{1}{2}$ inch	-	15/-	-	29/-
$1\frac{3}{4}$ "	-	18/-	-	32/-
2 "	-	24/-	-	40/-
$2\frac{1}{4}$ "	-	27/-	-	42/-
$2\frac{1}{2}$ "	-	30/-	-	45/-
3 "	-	35/-	-	50/-
$3\frac{1}{2}$ "	-	42/-	-	60/-
4 "	-	50/-	-	66/-

### COMPOUND ACHROMATIC PORTRAIT LENSES,

*French Manufacture, carefully selected.*

For Pictures					£	s.	d.
	$4\frac{1}{4} \times 3\frac{1}{4}$	-	-	-	1	1	0
"	$6\frac{1}{2} \times 4\frac{3}{4}$	-	-	-	2	2	0
"	$8\frac{1}{2} \times 6\frac{1}{2}$	-	-	-	6	6	0

## STEREOSCOPIC VIEW LENSES.

		£	s.	d.
These consist of a single Achromatic Lens, $1\frac{1}{8}$ inch diameter, $4\frac{1}{2}$ inch focus, mounted in brass, with sliding adjustment	-	1	0	0
Ditto ditto, with rack and pinion adjustment	-	1	10	0

## HOW'S NEW PORTRAIT COMBINATION.

*Fitted with Waterhouse Diaphragms, and Rack and Pinion Adjustment.*

The focus is measured from the back lense to the ground glass, from an object placed at the usual portrait distance.

No.	Diameter.	Combined focus.	Size of Portrait.	£	s.	d.
No. 1	1 inch	$3\frac{1}{2}$	$4\frac{1}{4} \times 3\frac{1}{4}$	2	2	0
" 2	2 "	$5\frac{1}{2}$	Carte de Visite.	4	4	0
" 3	2 "	6	ditto	4	4	0
" 4	2 "	7	$6\frac{1}{2} \times 4\frac{3}{4}$	4	4	0
" 5	3 "	$10\frac{1}{2}$	$8\frac{1}{2} \times 6\frac{1}{2}$	9	10	0

These lenses, after a long series of experiments, and much labour, have been brought to a high state of perfection, giving beautiful definition to the edge of the picture, the chemical and visual foci coincident; and they are, in every respect, equal to those sold at much higher prices. Also, the arrangement of the brass-work is so simple and effective, that no extra mount is required, either for views or copying. They may be had in pairs, or sets of four, of precisely the same focus, for taking several pictures on one plate.



# PHOTOGRAPHIC LENSES FOR PORTRAITS AND VIEWS,

WITH

Coincidence of the Visual and Chemical Foci,

MANUFACTURED BY

VOIGTLÄNDER AND SON,

VIENNA AND BRUNSWICK,

And supplied by

JAMES HOW,

Successor to

G. KNIGHT & SONS, 2, FOSTER LANE, LONDON.

No. A consists of a combination of Achromatic Lenses, £ s. d.  
 $1\frac{1}{8}$  inch and  $1\frac{1}{8}$  inch diameter, the combined focus  
 being, with regard to the size of the picture, the  
 same as a simple Achromatic Lens of  $6\frac{3}{8}$  inch focus,  
 in brass mounting, with central stops and rack and  
 pinion adjustment, adapted for taking pictures on  
 $4\frac{1}{8}$  inch plates - - - - - 7 2 6

No. B consists of a combination of Achromatic Lenses,  
 $2\frac{1}{8}$  inch and  $2\frac{1}{8}$  inch diameter, the combined focus  
 being  $6\frac{3}{8}$  inch, in brass mounting, with central stops  
 and rack and pinion adjustment, suited for taking  
 pictures on  $4\frac{1}{8}$  inch plates. This combination com-  
 mands great power of light. It is a very quick-  
 acting instrument, and is particularly adapted for  
 taking portraits of children - - - - - 8 17 6

No. C consists of a combination of Achromatic Lenses,  
 $2\frac{1}{8}$  inch and  $2\frac{3}{8}$  inch diameter, the combined focus  
 being  $9\frac{3}{8}$  inch, brass mounting, with central stops  
 and rack and pinion adjustment, adapted for taking  
 pictures up to  $7\frac{1}{4}$  inch - - - - - 12 0 0

The lenses marked A B C are specially constructed  
 for taking "Carte de Visite" pictures, and will be  
 found to answer better for that purpose than any  
 hitherto in use. These lenses will of course take  
 portraits as well.

Nos. A and B will take perfect pictures of the "Carte  
 de Visite" size in a glass-house of 17 feet.

Any of the above lenses may be had in sets of two,  
 four, or six, all of exactly the same foci.

- No. 1 consists of a combination of Achromatic Lenses, £ s. d.  
 $1\frac{2}{8}$  inch and  $1\frac{3}{8}$  inch diameter, the combined focus  
 being  $5\frac{3}{4}$  inch, in brass mounting, with rack and  
 pinion adjustment, adapted for taking pictures on  
 $\frac{1}{8}$  inch and  $\frac{1}{4}$  inch plates, or up to  $4\frac{1}{4}$  inch by  $3\frac{1}{4}$  inch 4 15 0
- No. 1a.—The above, with central stops - - - 5 10 0  
 These lenses can be had in pairs of precisely the same  
 focal length, for taking Stereoscopic Portraits and  
 groups of figures from life, and are the best that can  
 be obtained for that purpose.
- No. 2 consists of a combination of Achromatic Lenses,  
 $2\frac{1}{8}$  inch and  $2\frac{3}{8}$  inch diameter, the combined focus  
 being  $7\frac{1}{2}$  inch, in brass mounting, with rack and  
 pinion adjustment, suited for taking pictures on  
 $\frac{1}{2}$ ,  $\frac{3}{4}$ , or  $\frac{1}{2}$  inch plates, or up to  $6\frac{1}{2}$  inch by  $4\frac{3}{4}$  inch - 7 7 6
- No. 2a.—The above, with central stops - - - 8 2 6  
 This lens takes very beautiful "Carte de Visite"  
 portraits, but it requires a glass-house 21 feet long.
- No. 3 consists of a combination of Achromatic Lenses,  
 $3\frac{1}{8}$  inch and  $3\frac{3}{8}$  inch diameter, the combined focus  
 being  $11\frac{1}{2}$  inch, brass mounting, with rack and  
 pinion adjustment, adapted for taking pictures 8  
 inch by 6 inch. This is the most useful lens that a  
 photographer, whether amateur or artist, can possess 14 0 0
- No. 3a.—The above, with central stops - - - 15 0 0
- No. 4a consists of a combination of Achromatic Lenses,  
 $3\frac{1}{8}$  inch and  $3\frac{3}{8}$  inch diameter, the combined focus  
 being  $8\frac{7}{16}$  inch, in brass mounting, with rack and  
 pinion adjustment, and central stops, suited for  
 pictures up to  $6\frac{1}{2}$  inch by  $4\frac{3}{4}$  inch. This combination  
 commands an immense power of light, and works  
 in a third less time than Nos. 1, 2, 3 - 22 0 0
- No. 5a consists of a combination of Achromatic Lenses of  
 the respective diameters of  $3\frac{1}{8}$  inch and  $2\frac{3}{8}$  inch, the  
 combined focus being  $2\frac{5}{8}$  inch, in brass mounting,  
 with rack and pinion adjustment, and central stops,  
 suited for taking pictures up to  $3\frac{1}{4}$  inch by  $2\frac{3}{4}$  inch.  
 This short focus, combined with the large aperture,  
 enables it to command an intensity of light four  
 times greater than any other. It is admirably  
 adapted for taking portraits in private rooms not  
 generally suited for the purpose, as also portraits of  
 children. Good pictures can be taken with it in  
 very dull weather - 22 0 0
- No. 6 consists of a combination of Achromatic Lenses  
 of the respective diameters of  $4\frac{3}{8}$  inch and  $4\frac{1}{4}$  inch,  
 the combined focus being  $14\frac{5}{8}$  inch, in brass mount-  
 ing, with central stops, suited for taking portraits  
 and pictures from life, on plates of 12 inches - 33 0 0



- No. 7 consists of a combination of Achromatic Lenses £ s. d.  
of the same diameter as No. 6, and mounted in a  
similar manner, but the combined focus of the lenses  
being longer, viz., equal in effect to a single lens  
of  $18\frac{3}{8}$  inch, is suited for taking portraits on  $13\frac{1}{2}$   
inch plates - - - - - 33 0 0
- No. 8 consists of a combination of Achromatic Lenses  
of the respective diameters of  $5\frac{1}{4}$  inch and  $5\frac{7}{16}$  inch,  
mounted in brass. The combined focus is equal to  
a single lens of  $22\frac{5}{8}$  inch; it will, therefore, take por-  
traits on plates of 16 inches. For small portraits,  
this lens can be used with its full aperture; but for  
larger ones or for groups, it is advisable to employ  
one or other of the stops - - - - - 62 0 0
- No. 9.—This new combination consists of an arrangement  
of Achromatic Lenses of  $6\frac{3}{8}$  inch and  $6\frac{5}{8}$  inch diameter,  
the combined focus being 27 inches in brass mounting,  
with central stops, adapted for taking pictures on  
 $19\frac{1}{8}$  inch plates - - - - - 87 10 0

### Lenses of the latest Construction, of Long Foci.

- No. 10 consists of a combination of Achromatic Lenses  
of  $3\frac{3}{8}$  inch and  $3\frac{3}{16}$  inch diameter, the combined focus  
being  $14\frac{1}{8}$  inches in brass mounting, without rack  
and pinion, and without central stops, adapted for  
taking pictures on 12 inch plates - - - - - 11 0 0
- No. 11 consists of a combination of Achromatic Lenses  
of  $4\frac{3}{16}$  inch, and  $4\frac{1}{4}$  inch diameter, the combined  
focus being  $22\frac{5}{8}$  inch in brass mounting, without  
rack and pinion, and without central stops, adapted  
for taking pictures on 16 inch plates - - - - - 27 10 0
- No. 12 consists of a combination of Achromatic Lenses  
of  $5\frac{1}{4}$  inch and  $5\frac{7}{16}$  inch diameter, the combined focus  
being 27 inch in brass mounting, without rack and  
pinion, and without central stops, adapted for taking  
pictures on  $19\frac{1}{8}$  inch plates - - - - - 50 0 0
- No. 13 consists of a combination of Achromatic Lenses  
of  $6\frac{3}{8}$  and  $6\frac{5}{8}$  inch diameter, the combined focus being  
35 inch in brass mounting, without rack and pinion,  
and without central stops, adapted for taking pictures  
on  $23\frac{1}{4}$  inch plates - - - - - 67 10 0

\* \* The focus given in all the above lenses must be  
understood as measuring from the centre of the  
combination.

A separate mounting can be furnished for using the  
front lens of any of the portrait combinations, for  
taking views and objects of still life, though the  
Orthoscopic Lenses are very much better for the  
purpose.

*The attention of Photographers is directed to the following observations, which may serve to guide them in the selection of Portrait Lenses.*

VOIGTLÄNDER & SON'S Lenses, Nos. 1 to 6 inclusive, as well as Nos. A, B, and C, have much more light, on account of their short foci, than common Lenses of the same diameters, and for this reason do not produce as large pictures. This apparent disadvantage will, however, to a great extent, be remedied by the application of central stops, by which at a proportionately small loss of light, a larger picture and greater depth is obtained.

All acquainted with the subject know, that the principal difficulty in constructing a Lens, is to obtain a large, flat, and well-lighted picture, and it is this latter quality which the Lenses of VOIGTLÄNDER & SON are known to possess to so great an extent as to be appreciated by thoroughly practical Photographers.

To meet the wishes of those, however, who desire large pictures, VOIGTLÄNDER & SON have constructed a new series of Lenses of long foci, Nos. 10, 11, 12, and 13. The foci of these Lenses being longer than the others of the same diameter, *a larger picture and greater depth* is obtained, certainly at some sacrifice of light; but yet these Lenses will be found to possess more light and greater sharpness of definition than any other Lenses of the same diameter and foci.

The Lenses with long foci being much more easily constructed than the ordinary kind, are offered at a very much reduced price, to which the notice of Photographers is particularly called.

The relative power of light of VOIGTLÄNDER'S Lenses may be stated thus, Nos. A, C, 1, 2, 3, and 6 have the same amount of so-called normal light; Nos. B and 4 have one-third more; No. 5, four times the amount; Nos. 7 and 8, one-third less; and Nos. 10, 11, 12, and 13, about one-half.

## THE ORTHOSCOPIC PHOTOGRAPHIC LENSES.

*For Views, &c.*

These newly-constructed Photographic Lenses, to which VOIGTLÄNDER and SON have given the name Orthoscopic (correct showing), are especially intended for taking views, copying maps, plans, pictures, and works of art, and all other inanimate objects. With a good light and sensitive chemicals, portraits may be taken; but this is not the purpose for which the Orthoscopic Lenses are intended.

This new combination consists, like the Portrait Lenses, of two Achromatics; but it differs from them in this particular, that both the Lenses are not collecting Lenses, but the back or smaller one is a dispersing Lens. The great advantages gained by this improvement over the simple Achromatic Lenses hitherto employed for taking inanimate objects, views, &c., are the larger field, the increased amount of light, better perspective in the picture, and a greater degree of sharpness of the various objects placed at different distances.

The putting together and mounting of the Lenses is similar to the portrait combinations, but without any rack and pinion. The aperture of the front Lens is never stopped, as is the case with the usual View Lenses, but left perfectly open. The small back Lens is provided with



stops of four different apertures, increasing more or less the sharpness of the picture at the sacrifice of light, consequently increasing the time of exposure.

### *Sizes and Prices of the Orthoscopic View Lenses.*

No.	Front Lens.	Focus.	Size of Picture.	Price Complete.	Price without Front Lens.
1	$1\frac{9}{16}$ in.	$11\frac{1}{2}$ in.	10 × 8	£ 4 5 0	£ 2 17 6
2	$2\frac{1}{8}$ in.	15 in.	15 × 11	6 5 0	3 15 0
3	$3\frac{1}{8}$ in.	24 in.	21 × 15	11 0 0	6 10 0
4	$4\frac{3}{16}$ in.	$32\frac{1}{2}$ in.	26 × 21	20 10 0	9 5 0
5	$4\frac{3}{16}$ in.	40 in.	33 × 26	20 10 0	9 5 0
6	$5\frac{1}{4}$ in.	50 in.	42 × 33	31 10 0	13 0 0

Orthoscopic Lenses, constructed expressly for taking £ s. d.  
Stereographs, combined focus  $4\frac{1}{2}$  inches, with two Achro-  
matics of  $\frac{5}{8}$  and  $1\frac{3}{8}$  inches; mounted in such a manner that,  
when used in pairs for one and the same Camera and  
focussing screen, they may be adjusted to coincide perfectly 3 7 6

These new Lenses are made of six different sizes,—the front Lens  
corresponding with the front Lens of the following Portrait combina-  
tions:—No. 1.  $1\frac{9}{16}$  inches in diameter; No. 2.  $2\frac{1}{8}$ ; No. 3.  $3\frac{1}{8}$ ; No. 6.  
 $4\frac{3}{16}$ ; No. 7.  $4\frac{3}{16}$ , long focus; No. 8.  $5\frac{1}{4}$ . The screws also agree. By  
this arrangement, those parties possessing either of the portrait  
combinations, can be supplied with the brass mounting and small back  
Lens, only using their own front Lens, and thereby saving a con-  
siderable cost.

### OBSERVATIONS.

The two glasses of the back Lens are not fixed in the mounting, in  
order to be able to clean them when necessary; but great care must be  
taken to replace them in their respective positions. The double concave  
Lens, with its flatter side downwards, first, then the concave-convex  
Lens, the concave side down; the ring must not be screwed down too  
tight.

To focus with these Lenses when there is a want of light, it should  
be done with the full aperture; then the focussing screen of the Camera  
is lifted up, and the cap, with an appropriate stop, is pushed on to the  
mount of the back Lens.

With regard to the size of the pictures, as stated in the foregoing  
List of Prices, it must be understood that the smaller sizes can be  
obtained for objects very near—for instance, when copying prints, &c.;  
whilst, for views, it will be possible to get the larger-sized picture.

As each Lens is examined and tested under the personal superin-  
tendence of Messrs. VOIGLÄNDER & SON, just previous to the instru-  
ments being packed for this country, the possibility of any (however  
slightly) imperfect Lenses being received, is quite precluded.

# PHOTOGRAPHIC LENSES FOR PORTRAITS AND VIEWS,

MANUFACTURED BY

ROSS, LONDON.

## PORTRAIT LENSES.

*With Rack and Pinion Movement.*

		£	s.	d.
No. 1.	For pictures 4 by 3 inches, focus $4\frac{1}{2}$ inches	-	5	0 0
	Waterhouse's Diaphragms for ditto	-	0	15 0
„ 3.	For pictures 6 by 5 inches, focus 8 inches	-	16	0 0
	Waterhouse's Diaphragms for ditto	-	1	10 0
„ 3a.	For pictures $8\frac{1}{2}$ by $6\frac{1}{2}$ inches, focus 12 inches	-	25	0 0
	Waterhouse's Diaphragms for ditto	-	1	15 0

## CARTE DE VISITE PORTRAIT LENSES.

		£	s.	d.
No. 1.	Focal length $4\frac{1}{4}$ inches, with Waterhouse's Diaphragms	-	5	15 0
„ 2.	Focal length $4\frac{3}{4}$ inches, with Waterhouse's Diaphragms	-	6	10 0
„ 3.	Focal length 6 inches, with Waterhouse's Diaphragms	-	11	10 0

## STEREOSCOPIC PORTRAIT LENS.

		£	s.	d.
	Focal length $3\frac{1}{2}$ inches, with Waterhouse's Diaphragms (very rapid)	-	4	0 0

## LANDSCAPE LENSES.

		£	s.	d.
No. 1.	Single Achromatic Lens for landscapes 6 by 5 inches, focus 9 inches	-	3	0 0
	Ditto ditto, with rack and pinion	-	4	0 0
„ 2.	For pictures $8\frac{1}{2}$ by $6\frac{1}{2}$ inches, focus 12 inches	-	4	10 0
	Ditto, with rack and pinion	-	5	10 0
„ 3.	For pictures, 10 by 8 inches, focus 15 inches	-	5	10 0
	Ditto, with rack and pinion	-	6	10 0
„ 3a.	For pictures, 12 by 10 inches, focus 18 inches	-	7	0 0
	Ditto, with rack and pinion	-	8	0 0
	Stereoscopic Lenses, of 6 and $4\frac{1}{2}$ inches focus	-	1	8 0
	Ditto, with rack and pinion	-	2	0 0



## ORTHOGRAPHIC LENSES.

	£	s.	d.
For pictures 6 by 5 inches, focus 8 inches - - -	3	15	0
Ditto, with rack and pinion - - -	4	17	0
For pictures $8\frac{1}{2}$ by $6\frac{1}{2}$ inches, focus $10\frac{1}{2}$ inches - - -	4	12	6
Ditto, with rack and pinion - - -	6	0	0
For pictures 10 by 8 inches, focus 14 inches - - -	5	15	0
Ditto, with rack and pinion - - -	7	10	0
For pictures 12 by 10 inches, focus $16\frac{1}{2}$ inches - - -	7	0	0
Ditto, with rack and pinion - - -	8	18	6

*Lenses of other sizes at proportionate prices.*

## PHOTOGRAPHIC LENSES FOR PORTRAITS AND VIEWS,

MANUFACTURED BY

DALLMEYER, LONDON.

## PORTRAIT LENSES.

	£	s.	d.
No. 1. For pictures, $4\frac{1}{4}$ by $3\frac{1}{4}$ inches, focus 5 inches -	5	0	0
„ 1b. Larger diameter „ $4\frac{1}{2}$ „ -	5	10	0
Set of Waterhouse's Diaphragms -	0	15	0
„ 2. For pictures 5 by 4 inches, focus 8 inches -	10	10	0
„ 2b. Larger diameter „ $6\frac{1}{2}$ „ -	11	11	0
Set of Waterhouse's Diaphragms -	1	5	0
„ 3. For pictures $6\frac{1}{2}$ by $4\frac{3}{4}$ inches, focus 10 inches -	16	0	0
„ 3b. Larger diameter „ 8 „ -	18	0	0
Set of Waterhouse's Diaphragms -	1	10	0
„ 3a. For pictures $8\frac{1}{2}$ by $6\frac{1}{2}$ inches, focus 12 inches -	25	0	0
„ 4b. Larger diameter „ 12 „ -	38	0	0
Set of Waterhouse's Diaphragms -	2	0	0

Nos. 1b and 2b are specially constructed for Carte de Visite Portraits.

Distance for No. 1b, 12 to 13 feet; for No. 2b, 18 to 19 feet.

## LANDSCAPE LENSES.

*With rack and pinion movement.*

	£	s.	d.
No. 1.—For pictures, 6 by 5 inches, focus 9 inches -	4	0	0
„ 2. „ $8\frac{1}{2}$ „ $6\frac{1}{2}$ „ „ 12 „ -	5	10	0
„ 3. „ 10 „ 8 „ „ 15 „ -	6	10	0
„ 3a. „ 12 „ 10 „ „ 18 „ -	8	0	0

All the above, without rack and pinion, at £1 under the above prices.

## NEW TRIPLE ACHROMATIC LENSES.

			£	s.	d.
For landscapes, 6 by 5 inches, focus 9 inches	-	-	4	4	0
Ditto with rack and pinion	-	-	5	0	0
For landscapes $8\frac{1}{2}$ by $6\frac{1}{2}$ inches, focus 10 inches	-	-	5	10	0
Ditto with rack and pinion	-	-	6	10	0
For landscapes 10 by 8 inches, focus 12 inches	-	-	6	10	0
Ditto with rack and pinion	-	-	8	0	0
For landscapes 12 by 10 inches, focus 15 inches	-	-	8	10	0
Ditto with rack and pinion	-	-	10	5	0
For landscape, 15 by 12 inches, focus 18 inches	-	-	11	0	0
Ditto with rack and pinion	-	-	13	0	0

## PHOTOGRAPHIC LENSES FOR VIEWS,

MANUFACTURED BY

GRUBB.

## GRUBB'S PATENT APLANATIC VIEW LENSES.

			£	s.	d.
A.	2 inches diameter, 9 inches focus, 6 by 5 inches field screw adjusting mount	-	3	0	0
B.	$2\frac{1}{2}$ inches diameter, 12 inches focus, 9 by 7 inches field screw adjusting mount	-	4	0	0
C.	3 inches diameter, 15 inches focus, 10 by 8 inches field, rack and pinion, or new portable mount	-	5	0	0
D.	$3\frac{1}{2}$ inches diameter, 18 inches focus, 12 by 10 inches field, rack and pinion, or new portable mount	-	6	10	0
E.	4 inches diameter, 21 inches focus, 15 by 12 inches field, rack and pinion, or new portable mount	-	9	0	0
F.	5 inches diameter, 25 inches focus, 18 by 16 inches field, new portable mount	-	13	0	0
G.	6 inches diameter, 30 inches focus, 22 by 20 inches field, new portable mount	-	18	0	0
$\frac{7}{8}$	inches diameter, $3\frac{3}{4}$ inches focus	{ ordinary stereo- scopic screw ad- justing mounts. }	1	16	0
1	" 4 $\frac{1}{2}$ "				
1 $\frac{1}{8}$	" 6 "				



# "HARRISON & SCHNITZER" PATENTED GLOBE LENSES.

*(Secured by Letters Patent in the United States, Great Britain and Ireland,  
and the Continent.)*

## STEREOSCOPIC PAIRS.

£ s. d.

2½ inch focus, covers well, 3½ × 3½ plate - - -  
3 " " 4 × 4 " - - -

These sizes can be obtained in pairs of exactly the same focal length for stereoscopic views, and in pairs mounted three inches from centre to centre, with a rack movement so adjusted as to focus both tubes at once. The rack obviates the necessity of any movement in the box. Additional charge for rack movement 8/10 per pair.

£ s. d.

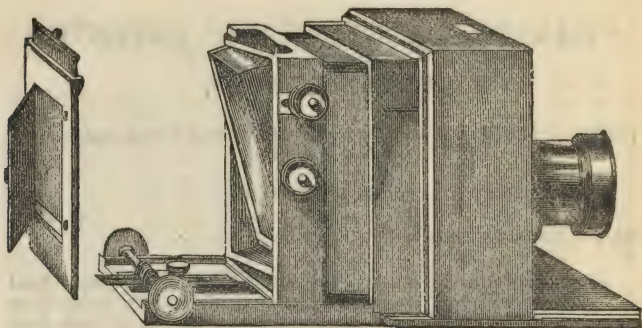
6 inch focus—covers well, 6½ × 8½ inch plate - -  
8 " " 9 × 11 " - -  
10 " " 12 × 14 " - -  
12 " " 14 × 17 " - -  
16 " " 19 × 23 " - -

All the above sizes are arranged with a rotary diaphragm giving five sizes of aperture; this diaphragm enables the operator to draw the focus with the largest opening, and then change to that aperture best suited to the light.

These newly-invented lenses having an angle of vision nearly twice as comprehensive as that of any other, will, with a very short focus, cover a large sized plate; and views heretofore considered impossible, owing to intervening objects preventing the camera from being placed at a sufficient distance, can be made with them, as the camera can be placed at less than one half the distance required for the Orthoscopic Lens, and yet the same sized plate will be covered sharp, and distinct to the edges.

**Focussing Magnifier**, for ascertaining that the image is really in focus on the ground glass, in brass mounting, with screw adjustment, 7s. 6d. to 10s. 6d.

**Parallel Mirrors** for the Daguerreotype process, £2 5s. to £5.



## CAMERAS.

*The following Prices refer to the Camera only, so that the cost of the Lens has to be added.*

### Plain Mahogany Sliding Cameras.

			£	s.	d.
No. 1.—For Pictures,	$4\frac{1}{4}$ by $3\frac{1}{4}$ , and under	-	1	5	0
" 2.	" $6\frac{1}{2}$ " $4\frac{3}{4}$ "	-	2	2	0
" 3.	" $8\frac{1}{2}$ " $6\frac{1}{2}$ "	-	3	10	0

**Square-Shape Cameras**, for taking the Plates in either direction, with loose Frames fitted with Silver-wire Corners for the different sized Plates.

			£	s.	d.
No. 1.—For Pictures,	$4\frac{1}{4}$ by $3\frac{1}{4}$ , and under	-	1	10	0
" 2.	" $6\frac{1}{2}$ " $4\frac{3}{4}$ "	-	2	12	6
" 3.	" $8\frac{1}{2}$ " $6\frac{1}{2}$ "	-	4	4	0

The No. 3 has a Vertical Sliding Front.

**Square-Shaped Cameras**, of fine Spanish Mahogany, best make and finish, for taking the Plates in either direction, with inner Frames fitted with Silver-wire Corners for the different-sized Plates.

			£	s.	d.
No. 1.—For Plates,	$4\frac{1}{4} \times 3\frac{1}{4}$ , and under	-	1	15	0
" 2.	" $6\frac{1}{2} \times 4\frac{3}{4}$ "	-	2	17	6
" 3.	" $8\frac{1}{2} \times 6\frac{1}{2}$ "	-	4	14	6
" 4.	" $10 \times 8$ "	-	6	10	0
" 5.	" $12 \times 10$ "	-	8	8	0

Nos. 3, 4, and 5 have Vertical Sliding Fronts.

## CAMERAS FOR TAKING STEREOSCOPIC PICTURES.

Stereoscopic Camera, for twin lenses, sliding front,		£	s.	d.
and one plate slide, for plates,	$6\frac{3}{4} \times 3\frac{1}{4}$	3	10	0
Ditto,	ditto, $7\frac{1}{4} \times 4\frac{1}{2}$	4	4	0



**Stereoscopic Camera**, with sliding body, for Plates,  $7\frac{1}{4} \times 4\frac{1}{2}$ , or Carte de Visite Pictures, with rackwork adjustment - - - - - £ s. d.  
5 5 0

This Camera has a range of focus from 4 to  $9\frac{1}{2}$  inches, the diaphragm may be taken out, and by the addition of an extra front can be used for the triple lens.

**Latimer Clarke's Stereoscopic Camera**, with plate frame,  $6\frac{3}{4} \times 3\frac{1}{4}$  - - - - - 3 3 0

Ditto, ditto, fitted with an extra frame for single Portraits,  $5 \times 4$  - - - - - 3 15 6

**Stereoscopic Camera**, with 6 slides for dry plates in case with stand - - - - - 6 6 0

**Portable Folding Stereoscopic Camera**, with 3 double slides in case with stand - - - - - 6 16 6

**Portable Twin Lens Camera**, with 3 double slides and focussing glass fitted in box, size  $8\frac{1}{2} \times 8\frac{1}{2} \times 5\frac{1}{2}$ , weight about 5 lbs. - - - - - 7 7 0

### CAMERAS FOR CARTE DE VISITE PICTURES.

**Camera with sliding body**, for taking Two Carte de Visite Pictures on one glass,  $7\frac{1}{4} \times 4\frac{1}{2}$ , and extra Portrait Frame for Pictures,  $6\frac{1}{2} \times 4\frac{3}{4}$  - - - - - £ s. d.  
4 4 0

**Camera for Two Lenses**, for taking Four Pictures on one plate, size  $9 \times 7$ , with sliding front, plate slide, and focussing glass - - - - - 6 6 0

**Camera for Two Lenses**, for taking both Carte de Visite and Stereoscopic Pictures, for plates,  $7\frac{1}{4} \times 4\frac{1}{2}$ , with movable diaphragm for taking single pictures the full size of plate with the Triple Achromatic Lens, fitted with double-headed rack on tail-board of Camera - - - - - 5 10 0

### IMPROVED CONICAL BELLOWS CAMERA,

With double-action front, screw adjustment for focussing from behind; may be used either view-ways, or in an upright position. The  $10 \times 8$  Camera has a range for focussing from 6 inch to 15 inch; and, by means of a simple arrangement on the board, the plate may be fixed out of the plane, having all the advantages of a swing-back Camera.

A  $10 \times 8$  Camera weighs 7 lbs., and, when folded, occupies only  $13 \times 10 \times 3$  inches.

These are clamped and screwed, and made in the best manner, well suited for tropical climates. With double strap handle, one slide and focussing glass, in Frame.

				£	s.	d.
For Pictures,	$6\frac{1}{2} \times 4\frac{3}{4}$ inches	-	-	4	17	6
Ditto	$8\frac{1}{2} \times 6\frac{1}{2}$ "	-	-	6	0	0
Ditto	$9 \times 7$ "	-	-	6	10	0
Ditto	$10 \times 8$ "	-	-	7	0	0
Ditto	$12 \times 10$ "	-	-	9	10	0

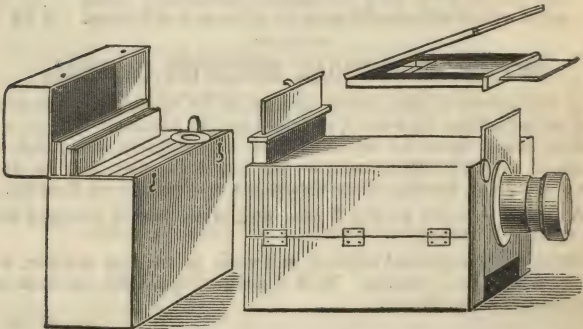
### Extra Backs for the above Camera.

For Pictures.		Double.			Single.		
		£	s.	d.	£	s.	d.
$6\frac{1}{2} \times 4\frac{3}{4}$ inches	-	1	12	6	1	2	0
$8\frac{1}{2} \times 6\frac{1}{2}$ "	-	1	15	0	1	10	0
$9 \times 7$ "	-	1	18	0	1	12	0
$10 \times 8$ "	-	2	0	0	1	14	0
$12 \times 10$ "	-	2	5	0	1	18	6
<b>Dark Changing Box, with the slide to work with it for</b>					£ s. d.		
the above Cameras, for pictures	$6\frac{1}{2} \times 4\frac{3}{4}$ inches				3	18	6
Ditto ditto	$3\frac{1}{2} \times 6\frac{1}{2}$ "				4	15	0
Ditto ditto	$10 \times 8$ "				5	10	0
Ditto ditto	$12 \times 10$ "				6	10	0

### SQUARE BELLOWS CAMERA.

		£ s. d.		
Square Bellows Camera, with hinged board, improved fastenings to bottom, fixing it at the side instead of under the board, with shifting front, one slide, thin focussing glass, size of picture, $8\frac{1}{2} \times 6\frac{1}{2}$		-	6	6 0
If with screw adjustment		-	7	7 0
Ditto, ditto, picture, $10 \times 8$		-	8	0 0
If with screw adjustment		-	9	5 0
Ditto, ditto, picture, $12 \times 10$		-	10	10 0
If with screw adjustment		-	12	0 0
Ditto, ditto, picture, $15 \times 12$		-	13	10 0
If with screw adjustment.		-	15	0 0

*The above Cameras fitted with Russian leather bodies at an extra charge.*



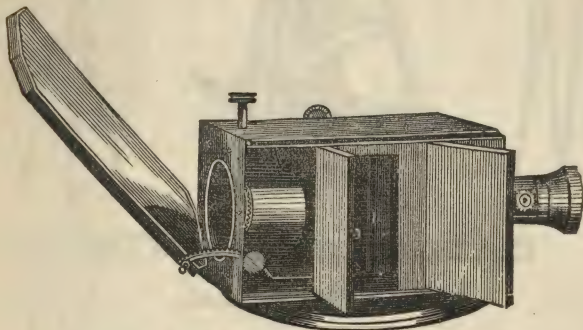
### PORTABLE FOLDING CAMERAS.

These are very convenient for travellers, as they pack into a small compass, and are very light; they are made of well-seasoned



mahogany, the sides fold inwards, each fitted with ground focussing glass, 2 double backs for dry plates or paper, and sliding front, packed in deal box, with handle and lock and key.

				£	s.	d.
No. 1.—Size of picture, $6 \times 4\frac{1}{2}$	-	-	-	2	17	6
" 2.                   " $8 \times 6$	-	-	-	4	4	0
" 3.                   " $10 \times 8$	-	-	-	6	6	0



### WOODWARD'S SOLAR CAMERA.

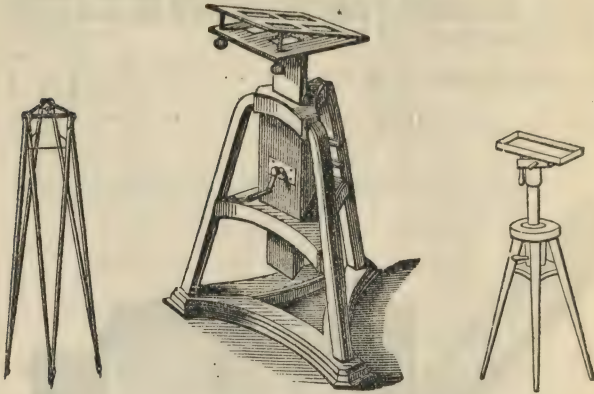
Woodward's Solar Camera, as improved by GEORGE	£	s.	d.
KNIGHT & SONS	18	0	0

### HISLOP'S CAMERA.

Hislop's Apparatus for taking micro-photographs	£	s.	d.
Ditto, with 1 inch object glass	3	3	0
Ditto, with best 1 inch object glass	4	4	0
	5	5	0

### COPYING CAMERAS

of large sizes to order.



## CAMERA STANDS.

### Portrait Camera Stands.

	£	s.	d.
No. 1.—This Stand is constructed substantially in birch, very steady, and is well adapted for the portrait room of the professor or amateur	-	-	0 18 6
„ 2.—Knight's Universal Tripod Stand. This is a very convenient form for medium-sized Cameras, when used for either Portraits or Views. It can be elevated or depressed at pleasure; is provided with an iron ball-and-socket joint, and is very firm; the legs being movable, it can be used on uneven ground	-	-	2 12 6
„ 3.—With jointed legs	-	-	3 3 0
„ 4.—French-pattern Camera Stand, made in walnut wood, with open jointed legs, boxwood ball-and-socket joint	-	-	1 15 0
„ 5.—Superior form of Camera Stand, with every adjustment, especially adapted for the portrait-room of the professional artist	-	-	3 13 6
„ 6.—The above Stand, fitted with rack and screw adjustments, greatly facilitating the adjustment of the Camera	-	-	8 18 6

## VIEW CAMERA STANDS.

	£	s.	d.
No. 1.—Portable Tripod Stand, with circular brass top and double legs, made in mahogany; suited for small Cameras - - - - - 10s. to	0	15	0
„ 2.—Portable View Camera Stand, consisting of a wood triangle attached to the Camera by means of a screw and fly nut. The legs are made in ash or hickory, light but strong, and, when detached, fold together - - - - -	1	5	6
„ 3.—Best View Camera Stand, of superior make, with brass triangle; the legs light, but strong; fold together when not in use. This Stand is remarkably firm, yet very portable, £1 15s. to	2	2	0
„ 4.—The same as above, with jointed legs, £2 12s. 6d. to	3	3	0

## HEAD RESTS.

	£	s.	d.
Simplest form, for attaching to a chair - - - - - 5s. 6d. to	0	10	0
Improved and more complete form, having several adjustments, to attach to a chair - - - - -	0	14	0
American pattern - - - - -	1	1	0
Claudet's Improved Head Rest, with velvet seat, and universal adjustment for the head. This form possesses many advantages - - - - -	2	5	0
Iron Head Rest, with iron foot - - - - -	1	5	0
Beard's Universal Head Rest, mounted on a heavy iron foot, with sliding telescopic adjusting tube. This rest, standing on the ground, is used independently of a chair, and can be applied to fix the head when the subject is in a standing position - - - - -	3	13	6

## GLASS BATHS FOR NITRATE OF SILVER,

*Blown in One Piece, and with Parallel Sides.*

Size of Bath.	£	s.	d.
5½ × 4 inches - - - - -	0	4	6
7 × 3½ „ - - - - -	0	4	6
7 × 5½ „ - - - - -	0	6	0
8 × 4 „ - - - - -	0	5	6
8 × 5½ „ - - - - -	0	7	0
9 × 6½ „ - - - - -	0	8	0
10 × 6¾ „ - - - - -	0	9	0
10½ × 7½ „ - - - - -	0	10	0
11 × 8½ „ - - - - -	0	11	0
13½ × 10 „ - - - - -	0	13	6
14 × 11 „ - - - - -	0	15	0
18 × 14 „ - - - - -	1	15	0
20 × 15 „ - - - - -	3	3	0



## GLASS BATHS,

*Mounted in a strong substantial Deal Stand and cover, well varnished for the Operating Room.*

Suited for Plates.				£	s.	d.
6 $\frac{3}{4}$ × 3 $\frac{1}{4}$ inches	Stereoscope	-	-	0	13	6
7 $\frac{1}{4}$ × 4 $\frac{1}{2}$ "	ditto and Carte de Visite	-	-	0	17	6
6 $\frac{1}{2}$ × 4 $\frac{3}{4}$ "	"	-	-	0	15	6
8 $\frac{1}{2}$ × 6 $\frac{1}{2}$ "	"	-	-	1	2	0
10 × 8 "	"	-	-	1	7	6
12 × 10 "	"	-	-	1	17	6
15 × 12 "	"	-	-	3	3	0

## GLASS BATHS,

Mounted in well-seasoned Mahogany Cases, well screwed together with water-tight tops for travelling, suited for plates				£	s.	d.
6 $\frac{3}{4}$ × 3 $\frac{1}{4}$ inches	-	-	-	1	5	6
Ditto, ditto 7 $\frac{1}{4}$ × 4 $\frac{1}{2}$ "	-	-	-	1	12	6
Ditto, ditto 6 $\frac{1}{2}$ × 4 $\frac{3}{4}$ "	-	-	-	1	10	0
Ditto, ditto 8 $\frac{1}{2}$ × 6 $\frac{1}{2}$ "	-	-	-	1	17	6
Ditto, ditto 10 × 8 "	-	-	-	2	2	0
Ditto, ditto 12 × 10 "	-	-	-	2	17	6
Ditto, ditto 15 × 12 "	-	-	-	4	10	0

## CAST GLASS BATHS, Unmounted.

For plates	£	s.	d.
4 $\frac{1}{4}$ × 3 $\frac{1}{4}$ inches	0	3	0
Ditto 6 $\frac{1}{2}$ × 4 $\frac{1}{4}$ "	0	4	0
Ditto 6 $\frac{3}{4}$ × 3 $\frac{1}{4}$ "	0	4	0
Ditto 8 $\frac{1}{2}$ × 6 $\frac{1}{2}$ "	0	5	0
Ditto 10 × 8 "	0	8	6
Ditto 12 × 10 "	0	14	6

## PORCELAIN BATHS.

		Bath.	Stand.	Dipper.		Complete		
					£	s.	d.	
For plates	4 $\frac{1}{4}$ × 3 $\frac{1}{4}$ inches	3/-	-/10	-/10	-	0	4	8
Ditto	5 × 4 "	4/-	1/-	1/-	-	0	6	0
Ditto	6 $\frac{1}{2}$ × 4 $\frac{3}{4}$ "	5/-	1/3	1/3	-	0	7	6
Ditto	6 $\frac{3}{4}$ × 3 $\frac{1}{4}$ "	5/-	1/3	1/3	-	0	7	6
Ditto	8 $\frac{1}{2}$ × 6 $\frac{1}{2}$ "	5/6	1/9	1/9	-	0	9	0
Ditto	9 × 7 "	7/-	2/-	2/-	-	0	11	0
Ditto	10 × 8 "	10/-	2/9	2/3	-	0	15	0
Ditto	11 × 9 "	12/6	3/6	2/6	-	0	18	6
Ditto	12 × 10 "	14/-	3/6	2/6	-	1	0	0
Ditto	14 × 12 "	26/-	4/6	3/-	-	1	13	6

# PORCELAIN BATHS FOR HOT WATER (Nitrate of Silver).

			£	s.	d.
For Plates	5 × 4 inches	-	-	0	8 6
Ditto	6½ × 5 "	-	-	0	10 6
Ditto	8½ × 6½ "	-	-	0	15 0

## DIPPERS OF FLUTED GLASS.

			£	s.	d.
9 inches long	-	-	-	0	1 0
11 " ditto	-	-	-	0	1 3
13 " ditto	-	-	-	0	1 6
16 " ditto	-	-	-	0	2 0
18 " ditto	-	-	-	0	2 6

## DIPPERS OF PURE SILVER WIRE, *From 30s. upwards.*

## PATENT EBONITE DIPPING BATHS.

Size of Bath.	Plain.	With water-tight tops.
	£ s. d.	£ s. d.
5 × 3½ inches	0 5 0	0 10 0
7½ × 5 "	0 7 0	0 14 6
9½ × 7 "	0 10 0	0 18 6
11½ × 8½ "	0 12 6	1 4 0
12 × 8½ "	0 13 6	1 6 0
12½ × 9½ "	0 15 6	1 7 0
13 × 9½ "	0 16 6	1 8 6
13½ × 10½ "	0 17 6	1 10 0
14½ × 10½ "	0 18 6	1 12 0
16½ × 12½ "	1 5 0	1 16 0

## STEREOSCOPIC.

	£ s. d.	£ s. d.
8½ × 3½ inches	0 7 6	0 12 0

## PATENT EBONITE DIPPERS.

	s. d.		s. d.
6 inch long	1 6	13½ inch long	3 0
8½ " ditto	1 8	14½ " ditto	3 3
10½ " ditto	2 0	17½ " ditto	3 6
12½ " ditto	2 6	19½ " ditto	5 0

## GUTTA PERCHA DIPPING BATHS,

*With Mahogany Support.*

Size of Bath.	Plain Bath.	Water-tight Bath.
	£ s. d.	£ s. d.
$4\frac{1}{4} \times 3\frac{1}{4}$ inches	0 2 6	0 9 0
5 $\times$ 4 "	0 4 0	0 10 6
$6\frac{1}{2} \times 4\frac{3}{4}$ "	0 4 6	0 13 6
$8\frac{1}{2} \times 6\frac{1}{2}$ "	0 6 6	0 16 6
10 $\times$ 8 "	0 10 6	1 0 0
12 $\times$ 10 "	0 14 6	1 6 0
14 $\times$ 12 "	0 18 6	1 10 0
18 $\times$ 16 "	1 10 0	2 5 0
$6\frac{3}{4} \times 3\frac{1}{4}$ "	0 5 6	0 10 6

## GLASS DISHES OF WHITE GLASS,

*For Preparing and Toning Papers.*

Size, Inside Measure.	£ s. d.	Size, Inside Measure.	£ s. d.
5 $\times$ 4 inches	0 2 0	12 $\times$ 9 inches	0 8 6
6 $\times$ 5 "	0 2 6	12 $\times$ 10 "	0 9 0
7 $\times$ $3\frac{1}{2}$ "	0 2 6	13 $\times$ 11 "	0 10 0
8 $\times$ 6 "	0 3 6	14 $\times$ 12 "	0 12 0
9 $\times$ 7 "	0 4 0	16 $\times$ 12 "	0 17 6
10 $\times$ 8 "	0 4 6	20 $\times$ 16 "	1 10 6

## CAST GLASS DISHES OF GREEN GLASS.

Size, Inside Measure.	£ s. d.	Size, Inside Measure.	£ s. d.
6 $\times$ $4\frac{1}{2}$ inches	0 2 6	9 $\times$ 7 inches	0 4 0
7 $\times$ $3\frac{1}{2}$ "	0 2 6	11 $\times$ 9 "	0 5 6
8 $\times$ 6 "	0 3 0	$12\frac{1}{2} \times 10\frac{1}{2}$ "	0 6 6

## GLASS TRAYS FOR WASHING, DEVELOPING, &c.,

*Made of Plate Glass, strongly cemented in Wooden Trays,  $1\frac{1}{8}$  inch deep.*

	£ s. d.
13 $\times$ 11 inches, inside measure	1 15 0
16 $\times$ 14 " "	1 17 6
20 $\times$ 18 " "	2 5 0
24 $\times$ 20 " "	2 15 0
30 $\times$ 24 " "	4 4 0

If with holes and stopper at one corner for letting off the liquid  
6s. 6d. extra.



## SHALLOW PORCELAIN DISHES.

*With Lip.*

				£	s.	d.
5	×	4	inches, inside measure	-	0	1 0
6	×	5	" "	-	0	1 0
6 $\frac{3}{4}$	×	3 $\frac{1}{4}$	" "	-	0	1 4
8	×	6	" "	-	0	1 6
10	×	8	" "	-	0	2 0
11	×	9	" "	-	0	2 8
12	×	10	" "	-	0	3 4
14	×	12	" "	-	0	5 6
16	×	13	" "	-	0	8 0
18	×	16	" "	-	0	10 0
22	×	18	" "	-	1	0 0
24	×	19	" "	-	1	4 0

DEEP PORCELAIN DISHES.

*With Lip.*

				With Lip.			£	s.	d.
5	×	4	inches, inside measure	-	-	-	0	1	3
6	×	5	" "	-	-	-	0	1	8
6 $\frac{3}{4}$	×	3 $\frac{1}{4}$	" "	-	-	-	0	1	9
8	×	6	" "	-	-	-	0	2	0
10	×	8	" "	-	-	-	0	2	6
11	×	9	" "	-	-	-	0	3	3
12	×	10	" "	-	-	-	0	4	0
14	×	12	" "	-	-	-	0	7	0
16	×	13	" "	-	-	-	0	10	0
18	×	16	" "	-	-	-	0	13	6
22	×	18	" "	-	-	-	1	4	0
24	×	19	" "	-	-	-	1	10	0

PORCELAIN DISHES FOR HOT WATER.

		£	s.	d.			£	s.	d.
8 × 6 inches	-	0	8	6	13 × 10 inches	-	0	16	6
10 × 7½ "	-	0	11	0	14 × 10½ "	-	0	18	0
12 × 9 "	-	0	14	6	16 × 12 "	-	1	1	0

## FILTERING JUGS.

		Plain.			Fluted.		
		£	s.	d.			
1	pint.	0	1	6	-	-	0 2 0
2	"	0	2	3	-	-	0 2 6
1	"	0	3	0	-	-	0 3 6
2	"	0	4	0	-	-	0 5 0

**PORCELAIN WASHING TROUGHS.**

Length.	Width.	Depth.	£	s.	d.
8 inches	5½ inches	3½ inches	-	-	0 3 6
10½ "	8 "	4 "	-	-	0 5 0
12½ "	10½ "	4½ "	-	-	0 7 0
14½ "	12½ "	5 "	-	-	0 10 6
17 "	14½ "	5½ "	-	-	0 17 0
22 "	18 "	5½ "	-	-	1 1 0

**EBONITE DISHES.**

			£	s.	d.
7½ × 3¾ inches, inside measure	-	-	-	0	3 6
8 × 6 "	-	-	-	0	4 0
9½ × 7½ "	-	-	-	0	5 6
11 × 9 "	-	-	-	0	6 6
11½ × 9½ "	-	-	-	0	7 6
12 × 10 "	-	-	-	0	8 6
12½ × 10½ "	-	-	-	0	9 0
13 × 11 "	-	-	-	0	10 0

**MOULDED GUTTA PERCHA DISHES, 1½ in. Deep.**

			£	s.	d.
8 × 6 inches, inside measure	-	-	-	0	3 0
9½ × 7½ "	-	-	-	0	3 6
11 × 9 "	-	-	-	0	5 6
11½ × 9½ "	-	-	-	0	6 0
12 × 10 "	-	-	-	0	6 9
12½ × 10½ "	-	-	-	0	7 6
19½ × 14½ "	-	-	-	1	1 0

**GLASS PLATES.***Best Patent Plate, Ground Edges.*

Size of Plate.			£	s.	d.
2½ × 2 inches, Per Dozen	-	-	-	0	1 3
3½ × 2¾ "	-	-	-	0	1 8
4 × 3 "	-	-	-	0	2 0
4½ × 3½ "	-	-	-	0	2 6
5 × 4 "	-	-	-	0	3 6
6½ × 3½ "	Stereoscopic	-	-	0	4 6
7½ × 4½ "	ditto and Carte de Visite	-	-	0	6 6
6 × 5 "	-	-	-	0	5 6
6½ × 4¾ "	-	-	-	0	5 6
7 × 6 "	-	-	-	0	7 0



GLASS PLATES (*continued*).

					£	s.	d.
8	×	6 inches, per dozen	-	-	-	0	8 6
8½	×	6½ " "	-	-	-	0	9 6
9	×	7 " "	-	-	-	0	11 0
9½	×	7½ " "	-	-	-	0	13 6
10	×	8 " "	-	-	-	0	15 0
10½	×	8½ " "	-	-	-	0	18 6
11	×	9 " "	-	-	-	1	0 0
11½	×	9½ " "	-	-	-	1	4 0
12	×	10 " "	-	-	-	1	6 6
15	×	12 " "	-	-	-	2	0 0

## PINE PLATE BOXES.

*Well-made, Dovetailed, strongly Varnished.*

			s.	d.		£	s.	d.
3½	×	2¾ inches, for 1 Dozen	2	6	-	0	4	0
4½	×	3½ " "	3	6	-	0	4	9
5	×	4 " "	4	0	-	0	5	6
6½	×	4¾ " "	4	6	-	0	6	0
6¾	×	3½ " "	4	6	-	0	6	0
7	×	6 " "	5	0	-	0	6	6
8	×	6 " "	5	6	-	0	7	6
8½	×	6½ " "	6	6	-	0	8	6
9	×	7 " "	7	0	-	0	9	0
10	×	8 " "	8	0	-	0	10	0
11	×	9 " "	9	0	-	0	12	0
12	×	10 " "	10	0	-	0	13	6
15	×	12 " "	13	0	-	0	17	0

*Common Plate Boxes considerably lower in price.*

## MAHOGANY PLATE BOXES.

			s.	d.		£	s.	d.
3½	×	2¾ inches, for 1 Dozen	4	0	-	0	5	0
4½	×	3½ " "	5	0	-	0	6	0
5	×	4 " "	5	6	-	0	6	6
6½	×	4¾ " "	6	0	-	0	7	6
6¾	×	3½ " "	6	0	-	0	7	6
7	×	6 " "	6	6	-	0	8	0
8	×	6 " "	7	0	-	0	10	0
8½	×	6½ " "	8	0	-	0	11	0
9	×	7 " "	9	0	-	0	12	0
10	×	8 " "	10	6	-	0	13	0
11	×	9 " "	11	6	-	0	14	0
12	×	10 " "	12	6	-	0	15	0
15	×	12 " "	15	0	-	1	1	0

## TRIANGULAR BRASS DEVELOPING STANDS,

With Adjusting Screws for Plates, 3s. 6d., 4s. 6d., and 5s. 6d.

## PORTABLE PHOTOGRAPHIC TENT.

This Tent when erected is 6 feet 6 inches high, contains 20 square feet of working space, it weighs only 14 lbs., and when folded for Travelling is only 24 inches by 7 inches diameter, may be fixed ready for working in Five Minutes; and when fixed has the advantage over all others, that it is perfectly steady. Price - - £ s. d.

4 4 0

## FIELD BOXES.

These Boxes will be found very convenient for working the wet Collodion where a Tent is used, as they contain everything necessary and sufficient for one dozen Plates.

Size of Plate, Stereoscopic,					£ s. d.
6 $\frac{3}{4}$ × 3 $\frac{1}{4}$ inches	-	-	-	-	2 7 6
Ditto, ditto	7 $\frac{1}{4}$ × 4 $\frac{1}{4}$	"	-	-	2 12 6
Ditto, ditto	6 $\frac{1}{2}$ × 4 $\frac{3}{4}$	"	-	-	2 10 0
Ditto, ditto	8 $\frac{1}{2}$ × 6 $\frac{1}{2}$	"	-	-	2 12 6
Ditto, ditto	10 × 8	"	-	-	2 17 6
Ditto, ditto	12 × 10	"	-	-	3 3 0

Larger Sizes made to Order.

## PHOTOGRAPHIC PAPERS.

*English Papers, Plain.*

	Size.	Quire.	Ream.
		£ s. d.	£ s. d.
Turner's Negative	15 × 9 $\frac{1}{2}$ inches	0 3 0 -	2 10 0
Ditto	19 × 15 "	0 6 0 -	5 0 0
Ditto	24 × 19 "	0 10 0 -	7 10 0
Whatman's	19 × 15 "	0 3 0 -	2 10 0
Hollingsworth's	22 × 18 "	0 4 0 -	3 10 0
Towgood's, for Solar Camera,	51 × 33 "	0 16 0 -	14 10 0

## ENGLISH PAPERS, PREPARED.

	Size.	Quire.
		£ s. d.
Turner's, Iodized for the Talbotype Process	15 × 9 $\frac{1}{2}$ inches	0 10 6
Ditto, ditto	19 × 15 "	1 1 0
Ditto, ditto	24 × 19 "	1 5 0
Hollingsworth's	22 × 18 "	1 5 0
Whatman's	19 × 15 "	1 1 0

## FOREIGN PAPERS, PLAIN.

	Size.	Quire.				Ream.		
		£	s.	d.		£	s.	d.
Papier Saxe, Positive	- 23 × 18 inches	0	4	6	-	4	0	0
Ditto, Negative	- 23 × 18 "	0	3	6	-	3	5	0
Papier le Rive, Positive	- 22 × 17 "	0	4	0	-	3	10	0
Ditto, Negative	- 22 × 17 "	0	3	6	-	3	5	0

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## FOREIGN PAPERS, PREPARED.

These Papers are selected with great care, prepared by experienced hands, and perfectly fresh Albumen (without water) is used, thereby ensuring those rich tints so much sought for and admired.

	Size.	Quire.				Ream.		
		£	s.	d.		£	s.	d.
Papier Saxe, Positive	- 23 × 18 inches	0	10	0	-	9	10	0
Ditto, Negative, Stereoscopic	23 × 18 "	0	10	0	-	9	10	0
Papier le Rive, stout	- 22 × 17 "	0	10	0	-	9	10	0
Ditto, thin, Carte de Visite	- 22 × 17 "	0	10	0	-	9	10	0

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## PHOTOGRAPHIC PAPERS.

	Size.	Per Quire.		
		£	s.	d.
Plain waxed,	23 × 18 inches	-	-	0 14 0
Ditto ditto,	18 × 11 "	-	-	0 7 6
Ditto ditto and iodized,	23 × 18 "	-	-	1 10 0
Ditto ditto ditto,	18 × 11 "	-	-	0 15 0

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## BIBULOUS PAPERS.

Thin, 1s.; Thick, plain, 2s.; Thick, rolled, 2s., per quire.

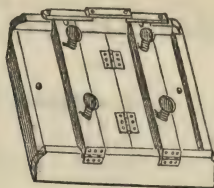
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## TEST PAPERS.

*Either for acids or alkalis, in books, 2s. per doz.*

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### PRESSURE FRAMES.

*Made in either pine or mahogany, with jointed backs, and fitted with springs to equalise the pressure.*

No. 1	For plates					Each.		Per Dozen.		
						s.	d.	£	s.	d.
		$6\frac{3}{4} \times 3\frac{1}{4}$ inches	-	-	-	3	0	-	1	10 0
	ditto	$7\frac{1}{4} \times 4\frac{1}{2}$ "	-	-	-	3	0	-	1	10 0
	ditto	$4\frac{1}{2} \times 3\frac{1}{4}$ "	-	-	-	3	0	-	1	10 0
	ditto	$5 \times 4$ "	-	-	-	3	0	-	1	10 0
	ditto	$6\frac{1}{2} \times 4\frac{3}{4}$ "	-	-	-	3	6	-	1	16 0
	ditto	$8\frac{1}{2} \times 6\frac{3}{4}$ "	-	-	-	5	6	-	3	0 0

These pressure frames are without the usual plate glass, and are made of the exact size of negative glass plates; well suited for the profession when a great number of efficient frames is required.

*Pressure frames made of pine, well varnished and fitted with stout plate glass.*

Size of glass,						Each.				
						£	s.	d.		
		$7 \times 6$ inches	-	-	-	-	-	-	0	5 6
	Ditto,	$9 \times 7$ "	-	-	-	-	-	-	0	7 6
	Ditto,	$10 \times 8$ "	-	-	-	-	-	-	0	8 6
	Ditto,	$11 \times 9$ "	-	-	-	-	-	-	0	10 6
	Ditto,	$12 \times 10$ "	-	-	-	-	-	-	0	12 0
	Ditto,	$13 \times 11$ "	-	-	-	-	-	-	0	14 0
	Ditto,	$14 \times 12$ "	-	-	-	-	-	-	0	15 6

*The ordinary pressure frames made in mahogany or oak, and fitted with either springs or screws, and stout plate glass.*

Size of glass,						Each.				
						£	s.	d.		
		$7 \times 6$ inches	-	-	-	-	-	-	0	7 6
	Ditto,	$9 \times 7$ "	-	-	-	-	-	-	0	10 6
	Ditto,	$10 \times 8$ "	-	-	-	-	-	-	0	15 0
	Ditto,	$11 \times 9$ "	-	-	-	-	-	-	0	17 0
	Ditto,	$12 \times 10$ "	-	-	-	-	-	-	0	18 6
	Ditto,	$14 \times 12$ "	-	-	-	-	-	-	1	10 0
	Ditto,	$16 \times 13$ "	-	-	-	-	-	-	1	14 0
	Ditto,	$19 \times 17$ "	-	-	-	-	-	-	1	18 0
	Ditto,	$25 \times 23$ "	-	-	-	-	-	-	2	5 0
	Ditto,	$27 \times 25$ "	-	-	-	-	-	-	2	12 6

## VIGNETTE GLASSES,

*For Pictures.*

	£	s.	d.		£	s.	d.
$2\frac{1}{2} \times 2$ inches, each	0	0	6	$10 \times 8$ inches, each	0	3	0
$3\frac{1}{4} \times 2\frac{3}{4}$ " "	0	0	9	$12 \times 10$ " "	0	4	3
$3\frac{1}{4} \times 4\frac{1}{4}$ " "	0	1	0	$14 \times 10$ " "	0	5	6
$5 \times 4$ " "	0	1	6	Stereoscopic " "	0	2	3
$6\frac{1}{2} \times 4\frac{3}{4}$ " "	0	1	9	Carte de Visite " "	0	1	0
$8\frac{1}{2} \times 6\frac{1}{4}$ " "	0	2	3				

## CUTTING PLATES.

*Plate Glass, Bevelled and Polished Edges. Square, Dome, or Oval Shapes.*

	£	s.	d.		£	s.	d.
$2\frac{1}{2} \times 2$ inches, each	0	1	0	$8\frac{1}{2} \times 6\frac{1}{2}$ inches, each	0	2	3
$3\frac{1}{4} \times 2\frac{3}{4}$ " "	0	1	0	$10 \times 8$ " "	0	3	6
$3\frac{1}{4} \times 4\frac{1}{4}$ " "	0	1	3	Carte de Visite " "	0	1	3
$5 \times 4$ " "	0	1	6	Dome for Stereo Slides	0	1	3
$6\frac{1}{2} \times 4\frac{3}{4}$ " "	0	1	9				

## GLASS FUNNELS.

	s.	d.		s.	d.
2 inches diameter -	0	4	4 inches diameter -	0	8
$2\frac{1}{2}$ " -	0	5	5 " -	0	10
3 " -	0	6	6 " -	1	2

## FUNNELS OF WEDGEWOOD WARE.

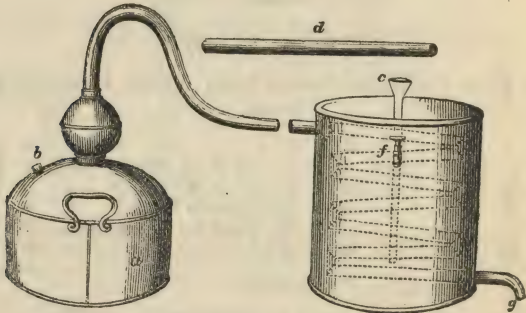
	s.	d.		s.	d.
$2\frac{3}{4}$ inches diameter	0	6	$5\frac{1}{2}$ inches diameter	1	4
$3\frac{1}{4}$ " -	0	8	$6\frac{1}{2}$ " -	2	0
4 " -	1	0			

## GRADUATED GLASS MEASURES.

	s.	d.		s.	d.
1 drachm -	1	0	6 ounces	2	0
2 " -	1	3	8 " -	2	3
1 ounce -	1	0	10 " -	2	6
2 " -	1	3	20 " -	4	6
4 " -	1	6			

# . SCALES AND WEIGHTS.

In oak box, with brass pans and weights	-	-	-	£	s.	d.
Ditto glass pans and grain weights	-	-	-	0	4	0
Mahogany box, with best beam glass pans and grain weights				0	6	0
Mounted on brass pillar, with best beam glass pans, weights,				0	13	6
the whole packed in mahogany box	-	-	£1 10 to 2 12 6			



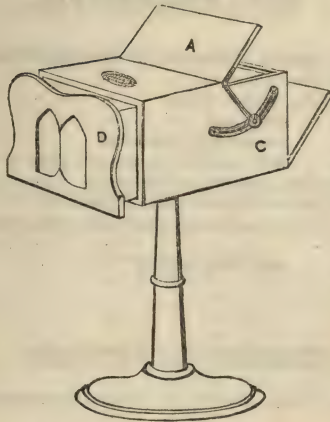
## PORTABLE STILLs,

*Strong well-made Tin Stills for distilling water, with worm tub and connecting pipe.*

	£	s.	d.		£	s.	d.
1 gallon size	-	1	1	0	2 gallon size	-	1 7 6



## STEREOSCOPES.



## THE ROYAL COSMORAMA STEREOSCOPE.

	£	s.	d.
Walnut or Rosewood Stereoscope, with sliding adjustment, hinged front for the convenience of cleaning the lenses, on handsome spiral-turned pillar, fitted with a brass knuckle joint for adjusting it to any kind of light	-	-	-
Ditto ditto, on plain pillar	-	-	-
Ditto ditto, but more simply constructed, from	£2	2s.	to
	3	10	0
	3	3	0
	2	10	0

## REVOLVING PEDESTAL STEREOSCOPES.

	£	s.	d.
Mahogany Revolving Stereoscope, capable of holding 50 pictures, either glass or paper, with reflectors and circular eye pieces	-	-	-
Ditto with achromatic lenses	-	-	-
Revolving Stereoscope for 50 pictures, achromatic lenses, made either in walnut or rosewood	-	-	-
Revolving Stereoscope for 50 pictures, handsomely made in either walnut or rosewood, with dome-shaped top, achromatic lenses with rackwork adjustment, and lock and key	-	-	-
The same as above, but with very handsome tulip edging	-	-	-
Large Pedestal Drawing Room Revolving Stereoscope, to stand upon the floor, capable of holding 100 pictures	-	-	-
	2	5	0
	3	10	0
	5	5	0
	7	7	0
	8	8	0
	10	10	0

## HAND STEREOSCOPES.

				£	s.	d.
<b>Mahogany with metal reflector for opaque objects</b>				0	5	6
Ditto with glass reflector	-	-	-	0	7	6
<b>Hand Stereoscope, walnut wood</b>	-	-	-	0	9	0
Ditto ditto, rosewood	-	-	-	0	10	6
Ditto ditto, veneered in rosewood	-	-	-	0	12	6
Ditto ditto, with screwed joints and glass reflectors, either in zebra, walnut, or rosewood	-	-	-	1	5	0
<b>Hand Stereoscopes with opera glass adjustment</b>	-	-	-	1	1	0
Ditto ditto, in walnut or rosewood, with achromatic lenses	-	-	-	1	10	0
Ditto ditto, with tulip edging	-	-	-	1	16	0

## STEREOSCOPIC PICTURES.

*In great variety on glass, coloured or plain, Daguerreotype plates, and paper.*

Album Portraits of eminent persons.      Photographic Albums, &c., &c.

## CIRCULAR FILTERS.

				£	s.	d.
$3\frac{3}{4}$ inches diameter, per packet of 100	-	-	-	0	0	6
$4\frac{1}{2}$ " " " "	-	-	-	0	0	9
$5\frac{1}{2}$ " " " "	-	-	-	0	1	0
$7\frac{1}{2}$ " " " "	-	-	-	0	1	6
10 " " " "	-	-	-	0	2	0
13 " " " "	-	-	-	0	2	6

## CRYSTAL MEDIUM.

				£	s.	d.
In packets of 50, 1 inch square	-	-	-	0	2	0
Ditto, $2\frac{1}{2} \times 2$ inches	-	-	-	0	3	6
Ditto, $3\frac{1}{4} \times 2\frac{3}{4}$ "	-	-	-	0	7	6
Ditto, $4\frac{1}{4} \times 3\frac{1}{4}$ "	-	-	-	0	12	6
Ditto, Carte de Visite size	-	-	-	0	8	6

These are plates of very fine transparent talc, and are useful for taking Positive Portraits upon, intended to be fitted into brooches, lockets, rings, &c., as it may be easily cut to any shape with a pair of scissors, and may be sent through the Post without fear of damage to the Portraits.

**NIELLO PAPER,***Used for the same purpose as Crystal Medium.*

					£	s.	d.
$2\frac{1}{2} \times 2$ inches,	price per dozen	-	-	-	0	2	0
$3\frac{1}{4} \times 2\frac{3}{4}$ "	"	-	-	-	0	2	9
$4\frac{1}{4} \times 3\frac{1}{4}$ "	"	-	-	-	0	4	0
$6\frac{1}{2} \times 4\frac{1}{4}$ "	"	-	-	-	0	8	0

**CARDBOARDS FOR MOUNTING PHOTOGRAPHS.***Extra Thick Plate Paper for Mounting Photographs.*

Size.		Per Gross.		Size.		Per Gross.			
		£	s.	d.		£	s.	d.	
10 × 7½ inches	-	0	10	6	18 × 13 inches	-	1	5	0
11½ × 8½ "	-	0	12	6	20 × 13½ "	-	1	13	0
13½ × 10 "	-	0	17	6	22 × 15 "	-	2	2	0
15 × 11 "	-	1	1	0	23½ × 17¼ "	-	2	10	0
17¼ × 11¾ "	-	1	5	0	27 × 20 "	-	3	7	6

**STOUT MOUNTING BOARDS.**

Size.		Per Doz.		Size.		Per Doz.
		£	s. d.			£ s. d.
$5\frac{3}{4} \times 4\frac{1}{2}$ inches	-	0	0 6	$16 \times 12$ inches	-	0 3 6
$7\frac{1}{2} \times 6$ "	-	0	0 9	$18 \times 14$ "	-	0 4 6
$9 \times 7\frac{1}{2}$ "	-	0	1 3	$21 \times 14\frac{1}{2}$ "	-	0 4 6
$11\frac{1}{4} \times 9$ "	-	0	1 9	$21 \times 16$ "	-	0 5 9
$12\frac{1}{4} \times 10\frac{1}{4}$ "	-	0	2 0	$23 \times 18$ "	-	0 6 6
$14\frac{1}{4} \times 10\frac{1}{2}$ "	-	0	2 3	$28\frac{1}{2} \times 21$ "	-	0 8 0

**STEREOSCOPIC CARDS.**

					£	s.	d.
Best drab, per gross	-	-	-	5/- to	0	6	0
Best enamel	-	-	-	5/6 "	0	7	0
Best double ditto	-	-	-	6/- "	0	7	6

**MOUNTING CARDS FOR ALBUM PORTRAITS.**

					s.	d.
Extra superfine, per 1,000	-	-	-	-	9	0
Thick ditto	"	-	-	-	10	6
Best Ivory	"	-	-	- 12s. to	18	0

The above can be had with printed backs of various designs by first-rate Artists, with name and address, at from 15s. per 1000 extra, and upwards.



## CUT-OUT CARDBOARD MOUNTS.

Outside Measure.	Per Doz.	Outside Measure.	Per Doz.
	£ s. d.		£ s. d.
6 × 5 inches	- 0 3 0	18 $\frac{1}{4}$ × 11 $\frac{1}{2}$ inches	- 0 12 6
7 × 5 $\frac{3}{4}$ "	- 0 3 9	21 × 14 $\frac{1}{4}$ "	- 0 15 0
9 × 7 $\frac{1}{2}$ "	- 0 4 6	21 × 16 $\frac{1}{4}$ "	- 0 18 0
10 × 8 "	- 0 6 0	23 × 18 "	- 0 19 0
11 $\frac{1}{2}$ × 9 "	- 0 6 9	28 $\frac{1}{2}$ × 21 "	- 1 5 0
14 $\frac{1}{4}$ × 10 $\frac{1}{2}$ "	- 0 9 0		

## TOWN-MADE ENGLISH PASSE PARTOUTS,

*Of Picked Glass, Black or Gilt Binding.*

Outside Measurement.	Per Doz.	Outside Measurement.	Per Doz.
	£ s. d.		£ s. d.
5 × 4 inches	- 0 5 0	11 × 9 inches	- 0 18 0
5 $\frac{1}{2}$ × 4 "	- 0 5 0	12 × 10 "	- 1 2 6
6 × 4 $\frac{1}{2}$ "	- 0 6 0	13 $\frac{1}{2}$ × 11 "	- 1 10 0
6 × 5 "	- 0 6 0	15 × 12 "	- 1 13 0
7 × 5 $\frac{3}{4}$ "	- 0 8 6	16 × 13 "	- 1 19 0
8 $\frac{1}{2}$ × 6 $\frac{1}{2}$ "	- 0 10 6	17 × 14 "	- 2 5 0
10 $\frac{1}{2}$ × 8 $\frac{1}{2}$ "	- 0 15 6	18 × 15 "	- 2 12 6

Photographs cut, mounted, and rolled with great care, at exceedingly low prices.

## PHOTOGRAPHIC COLOURS,

*Prepared from the Original Receipt of M. Mansion.*

	£ s. d.
No. 1. Box containing 12 colours, in small bottles -	- 0 14 0
„ 2. Box containing 21 colours, with gold and silver shell, brushes, &c. -	- 1 7 6
„ 3. Box containing the whole of the colours, gold and silver shell, an extra quantity of brushes -	- 1 15 0

The Colours may be had separately, at 1s. each bottle.

## LIST OF COLOURS.

- |                     |                          |
|---------------------|--------------------------|
| 1. Carmine.         | 7. Light Blue.           |
| 2. Scarlet.         | 8. Yellow for Draperies. |
| 3. Dark Flesh.      | 9. Ditto for Clouds.     |
| 4. Light ditto.     | 10. Orange.              |
| 5. Colour for Lips. | 11. Lemon.               |
| 6. Dark Blue.       | 12. Green.               |

LIST OF COLOURS (*continued*).

13. Green.	19. White for Clouds.
14. Dark ditto.	20. Ditto for Solarization.
15. Plum.	21. Black.
16. Lavender.	22. Claret.
17. Grey.	23. } Browns.
18. White.	24. }

## DRY COLLODION PLATES.

*Dr. Norris's Patent Process.*

6.	Size.	Per Doz.		Size.		Per Doz.	
		£	s. d.			£	s. d.
$4\frac{1}{4} \times 3\frac{1}{4}$ inches	-	0	5 0	$7 \times 6$ inches	-	0	14 0
$5\frac{1}{2} \times 3\frac{1}{8}$ "	-	0	6 0	$8\frac{1}{2} \times 6\frac{1}{2}$ "	-	0	18 0
$5 \times 4$ "	-	0	6 8	$9 \times 7$ "	-	1	1 0
$6\frac{1}{2} \times 3$ "	-	0	6 6	$10 \times 8$ "	-	1	6 8
$6 \times 4$ "	-	0	8 0	$11 \times 7$ "	-	1	5 8
$6\frac{1}{2} \times 4\frac{3}{4}$ "	-	0	10 0	$12 \times 9\frac{1}{2}$ "	-	1	18 0
$6\frac{1}{4} \times 3\frac{1}{4}$ "	-	0	8 9	$12 \times 10$ "	-	2	0 0

DR. NORRIS'S NEGATIVE PORTRAIT AND RAPID  
LANDSCAPE PLATE.

Size.		Per Doz.		Size.		Per Doz.	
		£	s. d.			£	s. d.
$4\frac{1}{4} \times 3\frac{1}{4}$ inches	-	0	5 9	$7 \times 6$ inches	-	0	16 0
$5\frac{1}{2} \times 3\frac{1}{8}$ "	-	0	6 9	$8\frac{1}{2} \times 6\frac{1}{2}$ "	-	1	1 0
$5 \times 4$ "	-	0	8 0	$9 \times 7$ "	-	1	3 6
$6\frac{1}{2} \times 3$ "	-	0	7 6	$10 \times 8$ "	-	1	10 6
$6 \times 4$ "	-	0	9 3	$11 \times 9$ "	-	1	18 0
$6\frac{3}{4} \times 3\frac{3}{4}$ "	-	0	10 0	$12 \times 10$ "	-	2	6 0
$6\frac{1}{2} \times 4\frac{1}{4}$ "	-	0	11 6				

All other sizes, to order, up to  $36 \times 24$  inches.

The Plates are securely packed in cases impervious to light or moisture. Every package is accompanied with full and lucid directions for exposing, developing, fixing, &c.

## ZINC BOXES,

*Perfectly impervious to light, for sensitive dry plates.*

No.	Size.	For 1 doz.	s. d.	For 2 doz.	£ s. d.
1.	$6\frac{3}{4} \times 3\frac{1}{4}$ inches.	7	6 -	0	10 6
2.	$6\frac{3}{4} \times 4\frac{1}{4}$ "	8	6 -	0	11 6
3.	$7\frac{1}{4} \times 4\frac{1}{2}$ "	9	6 -	0	12 6

## ZINC BOXES (continued).

No.	4.	4 $\frac{1}{2}$ × 3 $\frac{1}{2}$ inches.	For 1 doz.	s. d.	For 2 doz.	£ s. d.
"	5.	5 × 4	"	7 6 -	"	0 8 6
"	6.	6 $\frac{1}{2}$ × 4 $\frac{3}{4}$	"	8 0 -	"	0 10 6
"	7.	7 × 6	"	9 6 -	"	0 11 0
"	8.	8 × 6	"	10 6 -	"	0 12 6
"	9.	8 $\frac{1}{2}$ × 6 $\frac{1}{2}$	"	11 0 -	"	0 14 0
"	10.	9 × 7	"	13 6 -	"	0 15 0
"	11.	10 × 8	"	14 6 -	"	0 16 0
"	12.	11 × 9	"	15 6 -	"	0 17 6
"	13.	12 × 10	"	17 6 -	"	0 18 6
						1 1 6

The above are fitted with India Rubber Cushions top and bottom, to secure the Plates for travelling.

## DRAINING FRAMES.

For 1 dozen,	8 $\frac{1}{2}$ × 6 $\frac{1}{2}$ inches and under	£ s. d.
"	10 × 8	0 5 6
"	15 × 12	0 7 0
"	"	0 8 6

## COMPLETE SETS OF PHOTOGRAPHIC APPARATUS.

	£ s. d.
A complete Set of Apparatus for Portraits and Views, for Plates, 4 $\frac{1}{4}$ × 3 $\frac{1}{4}$ inches down, with chemicals, papers, &c., the lens of good quality	5 5 0
Ditto, ditto, with superior lens and larger quantities of chemicals	7 7 0
Ditto, for Plates 6 $\frac{1}{2}$ × 4 $\frac{3}{4}$ inches	8 8 0
Ditto, ditto, with superior lens and larger quantities of chemicals	10 10 0

## SUNDRIES USEFUL IN PHOTOGRAPHY.

Mortars and Pestles in Glass and Porcelain.

Funnels in Gutta Percha, of various Sizes.

Instruments to count Seconds, 17s. 6d. to 30s.

Spirit Lamps in Glass or Japanned Tin.

Spirit Levels. View Meters.

Photographic Lamps and Lanterns with Yellow Glass Shade, 3s. to 7s. 6d.



SUNDRIES USEFUL IN PHOTOGRAPHY (*continued*).

Corrundum Files for edging Glass Plates, 1s., 1s. 6d., and 2s. each.

Retort Stands for holding Funnels, &c., 3s. to 7s. 6d.

Horn Forceps, per pair, 1s.

Pneumatic Plate Holders, 2s. 6d., 3s. 6d., 4s. 6d., 5s. 6d.

Plate Holders for Cleaning Glass, 5s. 6d. to 12s. 6d.

Argentometer, Bink's form with Stand and Test Glass, 7s. 6d.

Argentometer to show grains of Nitrate of Silver in 1 oz. Water, with Glass in Case, 3s. 6d.

Capped Collodion Pourers, Plain and Engraved.

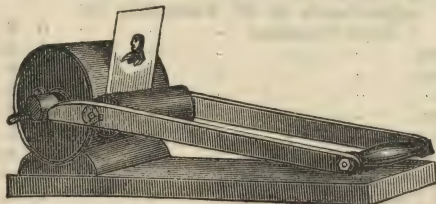
The Cometless Collodion Bottle.

Bullock's Mounting Machine, Carte de Visite size, 4s. 6d.

American Pegs for suspending Prepared Paper, per dozen, 1s.

Rolling Presses for Mounted Pictures (from the card to the full sheet), of immense Power.

Coleman Seller's Patent Rolling Press, Carte de Visite size, 35s.



Stopped Dropping Bottles for Nitrate of Silver	£ s. d.
-	0 1 3

## BROAD CAMELS'-HAIR BRUSHES.

	£ s. d.		£ s. d.
1½ inches	0 2 3	3 inches	0 3 9
2 "	0 2 9	4 "	0 4 9
2½ "	0 3 6	5 "	0 6 6

## PHOTOGRAPHIC PRINTING.

Printing from Negatives, on a reduced scale of Charges. Estimates given for large or small quantities.

Gentlemen's Mansions Photographed, by experienced Artists.

AGENT FOR

Jones's Photographic Slides for the Magic Lantern,

Consisting of

CARTOONS OF THE COTTON FAMINE, SCRIPTURE CARTOONS FROM  
THE OLD MASTERS, VIEWS IN SCOTLAND, PARIS, VENICE,  
ROME, &c., &c.

PURE CHEMICAL PREPARATIONS, &c.

ACIDS.	Per Oz.		Per Lb.		
	s.	d.	£	s.	d.
Acetic, glacial, for Collodion	0	4	0	4	0
" crystallizable at 50° Fahrenheit, for Paper Processes	0	8	0	7	0
Arsenic	1	6	0	18	0
Boracic	0	6	0	5	0
Citric	0	6	0	6	0
Formic	0	6			
Gallic, pure	1	6	1	0	0
Hydrochloric	0	2	0	1	0
Pyrogallic, pure white crystal	5	6			
Nitric, fuming (S.G. 1.500)	0	4	0	3	0
" pure	0	3	0	1	6
Succinic	3	6	2	8	0
Sulphuric (S.G. 1.845)	0	1	0	0	3
" pure	0	2	0	1	6
Tartaric	0	3	0	3	6
ALCOHOL (S.G. 836)	0	4	0	4	0
" absolute	0	6	0	6	0
AMBER IN CHLOROFORM (a hard transparent var- nish for Collodion Negatives)	1	0	0	14	0
AMMONIA, concentrated (880)	0	2	0	1	0
" Bromide	2	6	1	12	0
" Chloride	0	3	0	3	0
" Iodide	3	0	2	4	0
ARSENIC, Iodide	3	6	2	8	0
BARIUM, Chloride	0	2	0	2	0
BARYTA, Nitrate	0	3	0	3	0
BENZOLE, rough	0	2	0	1	0
" pure	0	3	0	1	6
BROMINE, pure	2	3	1	12	0
" Chloride	3	0	2	0	0

## PURE CHEMICAL PREPARATIONS, &amp;c. (continued).

					Per Oz.		Per Lb.		
					s.	d.	£	s.	d.
CADMIUM, Bromide	-	-	-	-	3	6	2	8	0
" Chloride	-	-	-	-	5	0	3	10	0
" Iodide	-	-	-	-	3	6	2	8	0
CALCIUM, Bromide	-	-	-	-	3	6	2	8	0
" Iodide	-	-	-	-	3	6	2	8	0
CAMPHOR	-	-	-	-	0	3	0	3	0
CARBON, Prepared Finishing Powder for Buffing	-	-	-	-	1	0	0	14	0
CHARCOAL, Animal Pure, for filtering	-	-	-	-	0	6	0	6	0
CHLOROFORM, pure	-	-	-	-	1	0	0	12	0
" Methylated	-	-	-	-	0	6	0	6	0
COPPER, Nitrate	-	-	-	-	0	4	0	4	0
" Sulphate	-	-	-	-	0	2	0	1	0
COTTON, Fine Carded	-	-	-	-	0	3	0	3	0
DEXTRINE	-	-	-	-	0	3	0	3	0
ETHER, Sulphuric, for Collodion	-	-	-	-	0	4	0	4	6
" "	-	-	-	-	0	6	0	7	6
GELATINE	-	-	-	-	0	3	0	3	0
GLYCERRHIZINE	-	-	-	-	1	0			
GOLD, Chloride, unadulterated with Soda,	$\frac{1}{4}$ bottle	-	-	-	3	0			
" "	$\frac{1}{2}$ "	-	-	-	5	0			
" "	drachm	-	-	-	8	6			
" Hyposulphite (Sel d'Or)	bottle	-	-	-	3	0			
GUN PAPER (Pyroxyline)	-	-	-	-	6	0	4	0	0
" COTTON (Zyloidine)	-	-	-	-	3	0	2	0	0
GUTTA PERCHA	-	-	-	-	0	4	0	4	0
ICELAND MOSS	-	-	-	-	0	4	0	4	0
IODINE, Commercial	-	-	-	-	1	6	0	18	0
" Resublimed	-	-	-	-	2	0	1	4	0
" Bromide (Sol.)	-	-	-	-	3	0	1	16	0
" Chloride	-	-	-	-	3	0	1	16	0
" Tincture, prepared for Wax Paper	-	-	-	-	0	6	0	6	0
IRON, Ammonio-Sulphate	-	-	-	-	0	2	0	2	0
" Bromide (Sol.)	-	-	-	-	2	0	1	10	0
" Chloride	-	-	-	-	0	6	0	6	0
" Iodide	-	-	-	-	2	0	1	10	0
" Pernitrate	-	-	-	-	0	6	0	6	0
" Protosulphate, Pure	-	-	-	-	0	2	0	2	0
KAOLIN, Washed	-	-	-	-	0	2	0	1	0
LEAD, Nitrate	-	-	-	-	0	4	0	4	0
LIME, Bromide	-	-	-	-	2	0	1	4	0
" Iodide	-	-	-	-	2	0	1	4	0
MAGNESIA, Nitrate	-	-	-	-	0	6	0	6	0
MANNITE	-	-	-	-	2	0	1	8	0
MERCURY, Distilled	-	-	-	-	0	4	0	3	0
" Bichloride	-	-	-	-	0	6	0	6	0
" Protonitrate	-	-	-	-	1	0	0	12	0
" Pernitrate	-	-	-	-	0	6	0	6	0
MILK, Sugar of	-	-	-	-	0	4	0	4	0



## PURE CHEMICAL PREPARATIONS, &amp;c. (continued).

		Per oz.		Per lb.		
		s.	d.	£	s.	d.
NAPHTHA, for burning	-	0	2			6
POTASSA, Caustic	-	0	4	0	4	0
" Chlorate	-	0	3	0	3	0
" Chromate	-	0	4	0	4	0
" Bichromate	-	0	4	0	4	0
" Nitrate, pure	-	0	2	0	2	0
" " commercial	-	0	1	0	0	8
POTASSIUM, Bromide	-	2	0			
" Cyanide, fused	-	0	6	0	5	0
" " pure	-	0	8	0	7	6
" Double Iodide for preparing Talbotype Paper	-	1	6	0	18	0
" Ferrocyanide	-	0	3	0	3	0
" Ferridcyanide	-	0	6	0	6	0
" Fluoride	-	1	0	0	12	0
" Iodide	-	1	6	1	0	0
ROUGE, finely prepared	-	0	6	0	6	0
ROTTEN STONE, washed	-	0	6	0	6	0
SILVER, Aceto-nitrate	-	0	6	0	6	0
" Ammonio-nitrate	-	0	9	0	9	0
" Bromide	-	6	0			
" Chloride	-	6	0			
" Cyanide	-	6	0			
" Iodide	-	6	0			
" Nitrate, crystallized, pure	-	4	0			
" " fused	-	4	6			
" Oxide, moist, for solution	-	10	0			
" pure, sheet and wire	-	8	0			
" solution, prepared for the Collodion Bath	-					
SOAP, Cyanogen	- per pot 1s. & 2s.					
SODA, Hyposulphite	-			0	0	10
SODIUM, Bromide	-	5	0	3	0	0
" Chloride, pure	-	0	3	0	2	6
" Fluoride	-	1	0	0	12	0
" Iodide	-	5	0	3	0	0
TEST PAPERS, in books	- each	0	2			
TONING, or Hypo-Colouring Bath	- pint			0	5	0
TRIPOLI	-	0	6	0	6	0
URANIUM, NITRATE	-	2	0	1	10	0
VARNISH for Backing Positive Pictures	- bottle, 1s.	2	0			
" Amber in Chloroform	-	1	0	0	14	0
" White Crystal	- bottle	1	6			
" Tunney's	- bottle, 1s. 6d., 2s. 6d.	4	6			
WATER, Distilled	- gallon	0	6			
WAX PAPER, Iodising Solution for	- per pint	5	0			
" Sensitizing Solution for	-	0	6	0	6	0
WAX, prepared for Negatives	-	0	3	0	3	6

The above Prices are subject to variation.

AGENT FOR

**MATHESON'S COLLODION VARNISH, &c.**

			£	s.	d.
<b>Matheson's Negative Collodion</b> , with either Bromo-					
iodizer or plain Iodizer, in 2 bottles, containing 4 ounces			0	2	6
Ditto	ditto	8	0	5	0
Ditto	ditto	20	0	11	6

**TESTIMONIALS.***To Mr. H. MATHESON.*

I HAVE pleasure in stating that of three or four collodions which I used in the East, I found yours decidedly the best. It was clean, rapid, and gave most admirable half tones.

I am, &amp;c.,

Reigate.

F. FRITH.

From FRANCIS BEDFORD, Esq., on his return from a tour in the East with H.R.H. the Prince of Wales.

*To Mr. MATHESON.*

DEAR SIR.—I have not had an opportunity yet of working with your collodion since I came home, but as far as my experience of it goes in working with it in the East, I should certainly be inclined to think very well of it. It is tolerably quick, gives very clean pictures, with sufficient intensity, and, moreover, keeps well, a very valuable desideratum.

Yours truly,

FRANCIS BEDFORD.

23, Rochester Road, Camden New Town.

**MATHESON'S POSITIVE COLLODION,**

In Bottles containing 4 oz., 2s.; 8 oz., 3s. 9d.; 10 oz., 5s. 3d.; 20 oz., 8s.

**MATHESON'S VARNISH,**

In 4 oz. Bottles, 1s.

**PERRY'S BROMO-IODIZED COLLODION,**

In Two Bottles, 5 oz., 3s.; 10 oz., 6s.; 20 oz., 11s. 6d.

# MAWSON'S COLLODION.

Positive Collodion, Negative Collodion for Pyrogallic Acid Development, Collodion for Iron Development (Carte de Visite Collodion).

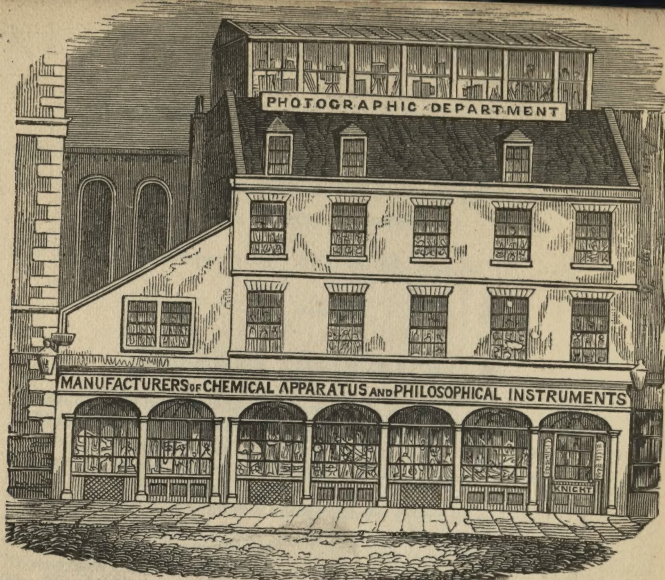
Per 20 oz., 10s.; 10 oz., 5s. 6d.; 5 oz., 2s. 9d.; 4 oz. 2s. 1d.; 2 oz., 1s. 1d.

## WORKS ON PHOTOGRAPHY, &c.

	£	s.	d.
A Manual of Photographic Chemistry, HARDWICK	-	0	7 6
A Manual of Photographic Manipulation, LAKE PRICE	-	0	6 6
A Dictionary of the Photographic Art, SNELLING	-	0	12 0
Photogenic Manipulation, BINGHAM. Parts 1 and 2, each,			
1s.; together in Cloth	-	0	2 6
Practical Hints to Amateur Photographers, MATTHESON	-	0	1 0
The Waxed Paper Process, GUSTAVE LE GRAY. With			
Supplement by JAMES HOW	-	0	1 0
Photography, ROBERT HUNT	-	0	6 0
The Printing Process, JAMES HOW	-	0	1 0
A Manual of Photographic Colouring, A. H. WALL	-	0	6 0







• JAMES HOW,  
2 FOSTER LANE, LONDON.

